

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**Version Description Document for the
Character-Based Interface (CharIF)
(Solaris 2.4, Solaris 2.5.1, and HP-UX 9.07)**

Version 1.0.0.0

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Attachment 1 - DII COE Character-Based Interface (CharIF) Version 1.0.0.0 (Solaris 2.4, Solaris 2.5.1, and HP-UX 9.07) Known Problems and Errors		

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NOTE: Courier font is used to indicate entries to be typed at the keyboard, UNIX commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

1. System Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE) Character-Based Interface (CharIF) account group establishes the user environment and provides the capability to easily execute character-based applications in a non-graphical menu-driven subsystem using serial and telnet connectivity.

2. Referenced Document

The following document is referenced in this Version Description Document:

C *Defense Information Infrastructure (DII) Common Operating Environment (COE) System Administrator's Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.AG-1, Inter-National Research Institute, October 29, 1996.

3. Version Description

3.1 Inventory of Materials Released

- C Magnetic media: Two 4mm tapes consisting of a relative tar of the Character-Based Interface (CharIF) segment, Version 1.0.0.0 (Solaris 2.4).
- C Magnetic media: Two 4mm tapes consisting of a relative tar of the Character-Based Interface (CharIF) segment, Version 1.0.0.0 (Solaris 2.5.1).
- C Magnetic media: Two 4mm tapes consisting of a relative tar of the Character-Based Interface (CharIF) segment, Version 1.0.0.0 (HP-UX 9.07).
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version Description Document for the Character-Based Interface (CharIF) (Solaris 2.4, Solaris 2.5.1, and HP-UX 9.07)* Version 1.0.0.0, Document Control No. DII.CharIF.1000.VDD-1, December 20, 1996
- C Hard-copy Documentation: Two hard copies of the aforementioned Version Description Document.

3.2 Software Changes

This is the first delivery of DII COE CharIF; as such, this delivery contains no software changes.

4. Installation Instructions

The system administrator must ensure that the system is loaded correctly with DII COE Version 3.0.0.3 (Solaris 2.4 or Solaris 2.5.1) or DII COE Version 3.0.0.4 (HP-UX 9.07) before loading the CharIF Version 1.0.0.0 account group segment. The CharIF segment then can be installed using the `Segment Installer` option from the `System Administration Software` pull-down menu. Reference the *DII COE System Administrator's Guide (HP and Solaris)* for instructions on installing segments.

5. Configuration Instructions

5.1 Configuring the Serial Port

5.1.1 Sun Workstation

To run CharIF from a VT220 terminal on a Sun workstation, the following steps must be performed to configure the serial port.

5.1.1.1 Solaris 2.4

STEP 1: **Log in.** Log in as root.

STEP 2: **Open a terminal emulator window.** Double-click on the Notepad control on the CDE Front Panel and select the Terminal control from the subpanel.

STEP 3: **Execute admintool.** Type the following command at the prompt to execute admintool:

```
admintool [RETURN]
```

The Administration Tool window appears.

STEP 4: **Access the Serial Port Manager: Modify Service window.** Click on the Serial Port Manager button. The Serial Port Manager: Modify Service window appears.

STEP 5: **Select a terminal port.** Select the serial port to which the VT220 terminal should be connected.

STEP 6: **Choose to modify information about the port.** Click on the `Edit` button to modify information about the port.

- STEP 7: **Change the level of detail.** Click on the `Expert` button to change the level of detail.
- STEP 8: **Make sure the terminal is hardwired.** Click on the `Use Template` button with the right mouse button and select `Terminal-Hardwired` from the pop-up menu to make sure the terminal is hardwired.
- STEP 9: **Change the terminal type.** Highlight the information in the `Terminal Type` field and type `VT100` to change the terminal type.
- STEP 10: **Apply your changes.** Click on the `Apply` button to apply your changes.
- STEP 11: **Exit from admintool.**

5.1.1.2 Solaris 2.5.1

- STEP 1: **Log in.** Log in with a System Administration account.
- STEP 2: **Open the Application Manager window.** Double-click on the Application Manager control on the CDE Front Panel. The Application Manager window appears.
- STEP 3: **Open the DII_APPS window.** Double-click on the `DII_APPS` folder. The `DII_APPS` window appears.
- STEP 4: **Open the SA_Default window.** Double-click on the `SA_Default` folder. The `SA_Default` window appears.
- STEP 5: **Execute admintool.** Double-click on the `Adm Tool` icon. The `Admintool: Users` window appears.
- STEP 6: **Access the Modify Serial Port window.** Select the `Serial Ports` option from the `Browse` menu. The `Modify Serial Port` window appears.
- STEP 7: **Select a terminal port.** Click on the serial port to which the `VT220` terminal should be connected.
- STEP 8: **Choose to modify information about the port.** Select the `Modify` option from the `Edit` menu to modify information about the port. The `Modify Serial Port` window appears.
- STEP 9: **Check the baud rate.** Make sure that `9600` is in the `Baud Rate` field.
- STEP 10: **Make sure the terminal is hardwired.** Make sure that `Terminal - Hardwired` is in the `Template` field.
- STEP 11: **Check the terminal type.** Make sure that `vt100` is in the `Terminal Type`

field.

STEP 12: Check the level of detail. Click on the `Expert` toggle in the `Detail` field to check the level of detail.

STEP 13: Apply your changes. Click on the `Apply` button to apply your changes.

STEP 14: Exit from admintool.

5.1.2 HP Workstation

To run CharIF from a VT220 terminal on an HP workstation, the following steps must be performed to configure the serial port.

STEP 1: Open the Application Manager window. Double-click on the Application Manager control from the CDE Front Panel. The Application Manager window appears.

STEP 2: Open the `usr` folder. Double-click on the `usr` folder.

STEP 3: Open the the `sbin` folder. Double-click on the `sbin` folder.

STEP 4: Execute the System Administration Manager (SAM). Double-click on the `sam` icon.

STEP 5: Run SAM. The `Action: Run` window appears. Click on the `OK` button without entering any options or arguments.

STEP 6: View peripheral devices. The `Welcome to SAM` window appears, followed by the `System Administration Manager` window. Inside the `System Administration Manager` window is the `SAM Areas` subwindow. Double-click on the `Peripheral Devices` icon.

STEP 7: View tape drives. The `SAM Areas: Peripheral Devices` subwindow appears. Double-click on the `Terminals and Modems` icon to view tape drives.

STEP 8: Acknowledge that the system cannot locate any tape drives. Click on the `OK` button to acknowledge that the system cannot locate any tape drives when the following `Note` appears:

No currently configured terminals and/or modems were found on your system. To configure a terminal or modem, choose `AAdd Terminal@` or `AAdd Modem@` from the `Actions@` pulldown menu. For more information, choose `AOverview@` from the `AHelp@` pulldown menu.

STEP 9: Proceed to add a terminal to the system. The `Terminals and Modems` window

appears. Select the Add Terminal option from the Actions pull-down menu.

STEP 10: Select a terminal port. The Add Terminal (Hardwired Device) window appears. Click on the serial port to which the VT220 terminal should be connected.

STEP 11: Set the baud rate to 9600. Click on the Speed (Baud Rate) button to open the Speed (Baud Rate) window. Click on 9600 and click on the OK button.

STEP 12: Exit the Add Terminal window. Click on the OK button to exit the Add Terminal window.

STEP 13: Acknowledge that the terminal has been added. Click on the OK button to acknowledge that the terminal has been added when the following message appears:

The terminal has been added. You may still need to physically connect the device and turn it on.

STEP 14: Exit from SAM.

5.2 Configuring the VT220 Terminal

Connect the VT220 terminal to the configured serial port on the Sun or HP workstation.

<p>NOTE: A null modem may be needed in order to allow the terminal and the workstation to communicate.</p>

Follow the steps below to configure the VT220 terminal.

STEP 1: Open the set-up Directory screen. Press the Set-Up button. The Set-Up Directory screen appears.

STEP 2: Select a general setup. Use your arrow keys to move the cursor to the entry labeled General and press [ENTER]. The General Set-Up screen appears.

<p>NOTE: The [ENTER] key is different than the [RETURN] key.</p>

STEP 3: Set the mode. Use your arrow keys to move to the third box in the first row. Set the mode to VT100 Mode.

STEP 4: Set the ID. Use your arrow keys to move to the fourth box in the first row. Set the ID to VT220 ID.

STEP 5: Set the cursor keys. Use your arrow keys to move to the second box in the third row. Set the cursor keys to Application Cursor Keys.

- STEP 6: **Set the new line.** Use your arrow keys to move to the third box in the third row. Set the new line to No New Line.
- STEP 7: **Return to the set-Up Directory screen.** Use your arrow keys to move to the second box in the first row. Your cursor should be on To Directory. Press [ENTER].
- STEP 8: **Exit the setup program.** Use your arrow keys to move to the fourth box in the third row. Your cursor should be on Exit. Press [ENTER].

6. Known Problems and Errors

Reference Attachment 1, *DII COE Character-Based Interface (CharIF) Version 1.0.0.0 (Solaris 2.4, Solaris 2.5.1, and HP-UX 9.07) Known Problems and Errors*, for a list of software problems.

**Attachment 1 - DII COE Character-Based Interface
(CharIF) Version 1.0.0.0 (Solaris 2.4, Solaris 2.5.1, and
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